

Curriculum Vitae

Gary F. Blackburn, Ph.D.

Office: Clinical Micro Sensors, Inc.
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Professional Experience:

1998-Present **Vice President, Scientific Affairs** Clinical Micro Sensors, Inc., Pasadena, CA. Responsible for management of all research and development management, intellectual property, and technology development.

1996-1998 **Director, Technology Management** Boehringer Mannheim Group, Gaithersburg, MD. Part of a team of four professionals reporting to the Chief Technology Officer responsible for the identification, assessment, and acquisition of new technologies which will be important to the long term growth of each of the divisions of Boehringer Mannheim (Diagnostics, Patient Care, Therapeutics, and Research Biochemicals). Responsible for the coordination of all aspects of the technology management process including identification of technological areas of focus for growth, identification and assessment of prospective technology acquisitions, due diligence, valuation, negotiation of acquisition/licensing terms, and execution of agreements.

1993-1996 **Director of Licensing and Strategic Planning** IGEN, Inc., Gaithersburg, MD. Responsible for all facets of licensing, including technology assessment, license negotiation, coordination of legal aspects, and license obligation tracking. Responsible for all contractual relationships with third parties, including nondisclosure, consulting, service, and supply agreements. Also responsible for long-range analysis of potential infringement issues arising from current research direction and product plans and for planning strategic solutions through licensing and designing around relevant patents. Provide technical and strategic planning with respect to IGEN's intellectual property protection, working with outside patent counsel and corporate patent attorneys. In addition, provided similar services for three "sister" start-up pharmaceutical companies, Proteinix Company, Pro-Neuron, Inc., and Pro-Virus, Inc.

1991-1992 **Director of Research;** IGEN, Inc., Rockville, MD; Responsible for direction of research for diagnostic (ECL-based instrumentation) and therapeutics (cancer therapy by prodrug activation and therapeutic applications of catalytic antibodies) technologies. Managed company's intellectual property, including patent applications and prosecution, and coordination of activities of both corporate and outside patent counsel.



- 1990-1991 **Director of Research, Diagnostics; IGEN, Inc.**, Rockville, MD; Responsible for all R&D programs in the development of immunodiagnostic instrumentation based on electrogenerated-chemiluminescence (ECL).
- 1987-1990 **Research Director, Biosensors; IGEN, Inc.**, Rockville, MD; Responsible for initiation of a new research program for the company in the area of biosensors based on catalytic antibodies.
- 1984-1987 **Senior Member of the Technical Staff**; Fundamental Research Laboratory, GTE Laboratories Inc., Waltham, MA; Principle Investigator for a research program investigating chemical sensors and molecular electronics. Established and won external corporate and government funding for a research program in molecular electronics.
- 1983-1984 **Postdoctoral Fellow, Cornell University**, under Prof. Edward D. Wolf; National Submicron Facility, Ithaca, NY; Responsibilities: Design, fabrication and characterization of sub-micrometer size chemically sensitive field-effect transistors (ChemFET) for measurement of charge fluctuations for application in immunochemical sensors.
- 1979-1983 **Consultant, Critikon, Inc.**, Salt lake City, UT. Responsibilities: Research in novel techniques for encapsulation of ion-selective FET's and coordination of joint research programs with the University of Utah Bioengineering Department.
- 1975-1978 **Research Toxicologist; HOSPAL Medical Corp.** (Joint venture between Sandoz and Rhone Poulenc), Salt Lake City, UT. Responsibilities: Development of *in-vitro* toxicological and hemodynamic tests for the screening of biomaterials and prototype devices for use in kidney hemodialysis and artificial hearts.

Education: **Ph.D. in Biomedical Engineering**, 1983, University of Utah; Research Advisor: J. Janata, Ph.D.; Dissertation title: "Molecular Adsorption Measurement with Chemically Sensitive Field Effect Transistors."

M.S. in Biomedical Engineering, 1981, University of Utah; Research Advisor: J. Janata, Ph. D.; Thesis title: "The Suspended Mesh Ion-Selective Field Effect Transistor."

B.S. in Chemistry, 1978, University of Utah, Magna Cum Laude.

Publications and Patents:

Thirteen publications in peer-reviewed journals

Five issued U.S. patents, five pending in U.S.

Two issued European patents, four pending in Europe and other countries.

References: Available upon request.